

## CLAIM LISTING

This listing of claims will replace all prior versions, and listings of claims in the application:

### IN THE CLAIMS

1. (Currently Amended) A method of altering a bit stream for configuring a programmable logic device (PLD) comprising:  
storing a first signature derived by applying an algorithm to a first bitstream;  
receiving a second bitstream; ~~and~~  
wherein the first and second bitstreams implement different functionality on the PLD; and  
altering the second bitstream to generate an altered second bitstream[.];  
wherein altering the second bitstream does not change the functionality of the second bitstream and application of the algorithm to the altered second bitstream results in a second signature that is equal to the first signature.
- 2-4. (Canceled)
5. (Original) The method of claim 1, wherein the algorithm is a cyclic redundancy check algorithm.
6. (Original) The method of claim 1, wherein the first signature is a checksum remainder resulting from dividing the first bitstream by a generator polynomial.

7. (Original) The method of claim 1, wherein the altering comprises:
  - appending a number of digital zero digits to an end of the second bitstream to generate an extended second bitstream;
  - dividing the extended second bitstream by a generator polynomial to generate an intermediate remainder; and
  - adding a forcing value to the extended second bitstream, wherein the forcing value equals the intermediate remainder plus the first signature.
8. (Original) The method of claim 7, wherein the first signature is generated by dividing the first bitstream by the generator polynomial.
9. (Original) The method of claim 7, wherein the dividing is performed using modulo-2 division and wherein the adding a forcing value is performed using modulo-2 addition.
10. (Original) The method of claim 1, wherein the altering comprises:
  - dividing the second bitstream by a generator polynomial to yield a remainder;
  - comparing a digital value in an Nth bit of the remainder to a digital value in an Nth bit of the first signature; and
  - adding a logic one to each Nth bit of the second bitstream for which the digital value in the Nth bit of the remainder differs from the value in the Nth bit of the first signature.
11. (Currently Amended) The method of claim 1, further comprising:
  - supplying the altered second bitstream to the PLD;~~a programmable logic device;~~
  - applying the algorithm to the altered second bitstream with circuitry on the PLD and outputting the second signature;
  - comparing the second signature to the first signature, wherein the first signature is stored on the PLD; and
  - enabling configuration of the PLD with the altered second bitstream in response to the second signature being equal to the stored first signature.

12-16. (Withdrawn)

17. (Currently Amended) A computer-readable medium having computer-executable instructions for performing steps for altering a bitstream for configuring a programmable logic device (PLD) comprising:

storing a first signature derived by applying an algorithm to a first bitstream;

receiving a second bitstream; and

wherein the first and second bitstreams implement different functionality on the PLD; and

altering the second bitstream to generate an altered second bitstream[.];

wherein altering the second bitstream does not change the functionality of the second bitstream and application of the algorithm to the altered second bitstream results in a second signature that is equal to the first signature.

18. (Currently Amended) The computer-readable medium of claim 17 having further computer-executable instructions for performing the steps of:

supplying the altered second bitstream to the PLD; a programmable logic device.

applying the algorithm to the altered second bitstream with circuitry on the PLD and outputting the second signature;

comparing the second signature to the first signature, wherein the first signature is stored on the PLD; and

enabling configuration of the PLD with the altered second bitstream in response to the second signature being equal to the stored first signature.

19. (Canceled)

20. (Original) A computer-readable medium having stored thereon a data structure generated by executing the steps comprising:

storing a first signature derived by applying an algorithm to a first bitstream;

receiving a second bitstream;

appending a number of digital zero digits to an end of the second bitstream to generate an extended second bitstream;

dividing the extended second bitstream by a generator polynomial to generate an intermediate remainder;

adding the intermediate remainder to the first signature to generate a forcing value; and

adding the forcing value to the extended second bitstream to obtain an altered bitstream.

21. (Original) The computer-readable medium of claim 20, wherein the altered bitstream defines a circuit configuration of a field programmable gate array.

22. (Original) The computer-readable medium of claim 20, wherein the dividing is performed using modulo-2 division.